

Amendment

Applicant: Christopher J. Zwettler

Serial No.: 10/763,748

Filed: January 23, 2004

Docket No.: 10333US01

Title: SIDE ACTING DRIVE SHAFT ENGAGEMENT FOR A DATA CARTRIDGERECEIVED
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IN THE CLAIMS

Please amend claims 1, 5, and 12 as follows:

1. (Currently Amended) A data storage cartridge having tape driven by a drive belt for use in a drive, the drive having a drive member, the cartridge comprising:

a) a housing having a top and a front adjacent and extending substantially perpendicular to the top; the top defining a driven roller opening that extends to the front;

b) a driven roller rotatably mounted in the housing, the driven roller having an outer surface for engaging a drive belt which in turn winds the tape; and

c) a driven member accessible by the drive via the driven roller opening and operatively connected to the driven roller,

wherein the driven member is configured to be selectively coupled by the drive member such that rotational movement of the drive member can be transferred to the driven roller.

2. (Previously Presented) The data storage cartridge of claim 1, the driven member further comprising:

a) a cylindrical member having a first end operatively connected to a base of the driven roller and a second end;

b) a drive member engagement surface proximate the second end, the drive member engagement surface being a first angled surface and a second angled surface opposite the first angled surface; and

c) the second end defining a slot and forming a drive member capturing member.

3. - 4. (Cancelled)

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5. (Currently Amended) A data storage cartridge having tape driven by a drive belt and drive combination, comprising:

- a) a data storage cartridge;
 - b) a drive adapted and configured to receive the data storage cartridge;
 - c) the drive having a drive member moveable in a first direction by contact with the cartridge;
 - d) a motor operatively connected to the drive member for rotating the drive member;
- and

- e) the data storage cartridge further comprising:
 - i) a housing having a driven roller opening;
 - ii) a driven roller rotatably mounted in the housing, the driven roller having an outer surface for engaging a drive belt which in turn winds the tape; and
 - iii) a driven member operatively connected to the driven roller, the driven member having an inclined engagement surface, whereby insertion of the cartridge in the drive in a second direction generally perpendicular to the first direction, interfaces the inclined engagement surface with the drive member to move the drive member in the first direction as the drive member advances along the inclined engagement surface; wherein upon further insertion of the cartridge in the second direction, the drive member selectively couples with the driven member such that rotational movement of the drive member is transferred to the driven roller.

6. (Original) The combination of claim 5, further comprising the motor operatively connected to a spring, the spring operatively connected to the drive, and the motor positioned above the driven roller opening, the drive member connected to the motor, wherein the drive member is moveable between a first position and a second position.

7. (Original) The combination of claim 6, wherein the motor is moveable between the first position and the second position.

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8. (Previously Presented) The combination of claim 6, the driven member further comprising:

a) a cylindrical member having a first end operatively connected to a base of the driven roller and a second end;

b) a driven member engagement surface proximate the second end, the drive member engagement surface being a first angled surface and a second angled surface opposite the first angled surface; and

c) the second end defining a slot and forming a drive member capturing member.

9. (Previously Presented) The combination of claim 8, the drive member adapted and configured to be positioned in the slot of the driven member, whereby the driven member is coupled to the drive member.

10. (Previously Presented) The combination of claim 9, the housing further comprising a top surface and a front, the driven roller opening is defined by the top surface and is positioned over the driven member.

11. (Original) The combination of claim 10, wherein the driven roller opening extends to the front.

12. (Currently Amended) A method of engaging a data storage cartridge into a drive, the drive having a drive member moveable between a first position and a second position, the method comprising:

a) inserting the cartridge into the drive in a first direction, wherein the cartridge includes a driven member entirely maintained within a housing;

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b) moving the drive member from its first position to its second position by moving the cartridge in the first direction, wherein movement of the drive member from the first position to the second position is in a second direction generally perpendicular to the first direction, and wherein the drive member is stationary in the second direction ~~prior to~~ until the drive member interacts with the driven member;

c) moving the drive member back towards its first position when the cartridge is fully inserted; and

d) engaging the drive member to the driven member on the cartridge, whereby rotational movement of the drive member is transferred to the driven member.

13. (Previously Presented) The data storage cartridge of claim 1, wherein the driven roller defines a base and the outer surface extends from the base in a first direction, and wherein the driven member extends from the base in the first direction and is concentrically positioned relative to and radially spaced from the outer surface.

14. (Previously Presented) The data storage cartridge of claim 13, wherein a cavity is defined between the outer surface and the driven member.

15. (Previously Presented) The data storage cartridge of claim 13, wherein the outer surface defines a rim opposite the base, and wherein the driven member extends from the base a distance further than a distance the rim is spaced from the base.

16. (Previously Presented) The data storage cartridge of claim 1, wherein the driven roller and the driven member each terminate prior to extending beyond the top of the housing.

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17. (Previously Presented) The data storage cartridge of claim 5, wherein the driven member has a drive member capturing member that receives the drive member to selectively couple the drive member with the driven member.
18. (Previously Presented) The method of claim 12, wherein the housing includes a top and a front adjacent and extending substantially perpendicular to the top, the top defining an opening that extends to the front, and wherein inserting the cartridge in the first direction causes the drive member to enter the housing through the opening to engage the driven member.
19. (Previously Presented) The method of claim 18, wherein inserting the cartridge in the first direction causes the drive member to enter the housing from the front and through the opening to engage the driven member.
20. (Previously Presented) The method of claim 18, further including positioning the cartridge for insertion such that the top of the cartridge housing generally extends in the first direction and the front of the cartridge housing generally extends in the second direction.
21. (Previously Presented) The method of claim 12, wherein the driven member includes an inclined engagement surface, and wherein moving the drive member from its first position to its second position includes moving the inclined engagement surface to interact with the drive member causing the drive member to move in the second direction.
22. (Previously Presented) The method of claim 12, wherein the driven member includes a drive member capturing member, and wherein engaging the drive member to the driven member includes seating a portion of the drive member in the drive member capturing member.